

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 4450 (2011)

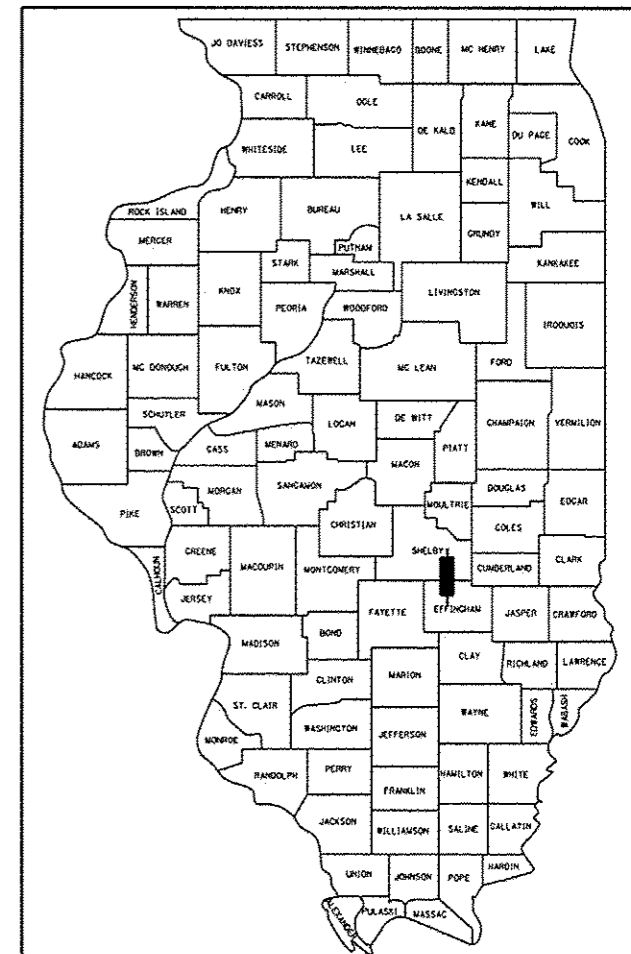
FAP ROUTE 766 (IL 32)  
SECTION D7 HMA SAFETY SHLD 2014-1  
PROJECT ACHSIP-0766(006)  
SAFETY IMPROVEMENTS  
SHELBY & EFFINGHAM COUNTIES

C-97-025-13

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	-	**	7	1
		ILLINOIS	CONTRACT NO. 74610	

\* D7 HMA SAFETY SHLD 2014-1  
\*\* SHELBY & EFFINGHAM

D-97-009-13



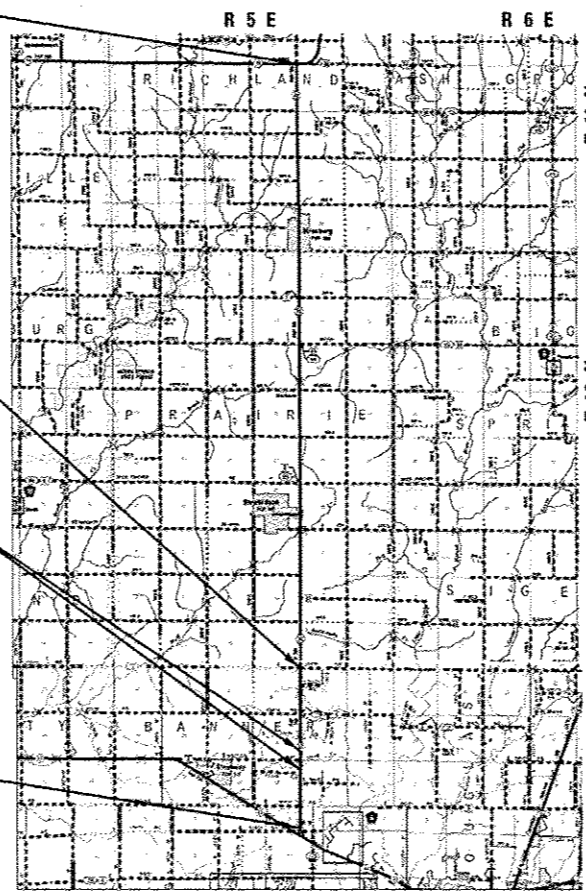
LOCATION OF SECTION INDICATED THIS: - [thick black line]

PROJECT BEGINS  
STA. 3+19.00

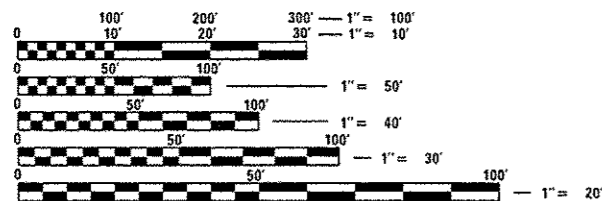
SHELBY / EFFINGHAM COUNTY LINE  
STA. 687+15.00

OMISSION: STA. 785+28.00  
TO STA. 807+60.00

PROJECT ENDS  
STA. 871+19.00



GROSS LENGTH = 86,800.00 FT. = 16.439 MILE  
NET LENGTH = 84,568.00 FT. = 16.017 MILE



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: MARK DAUGHERTY  
PROJECT MANAGER: MATT BOWER

CONTRACT NO. 74610

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Jan 27 20 14  
Roger L. Driskell, P.E.  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21 20 14  
John D. Baranzelli, P.E.  
acting ENGINEER OF DESIGN AND ENVIRONMENT

March 21 20 14  
Omer Osman, P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**INDEX OF SHEETS**

**SHEET NO. DESCRIPTION**

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND LOCATION MAP
- 3 SUMMARY OF QUANTITIES
- 4-5 TYPICAL CROSS SECTION
- 6 SCHEDULE OF QUANTITIES
- 7 TYPICAL APPLICATIONS OF PAVEMENT MARKINGS

**HIGWAY STANDARDS**

**STANDARD NO. DESCRIPTION**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 642006 SHOULDER RUMBLE STRIPS, 8 in.
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS => 45 MPH
- 701901-03 TRAFFIC CONTROL DEVICES

**GENERAL NOTES**

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESS TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT ITEMS.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDER, TYPE B SHALL BE CRUSHED CONCRETE, CRUSHED STONE, OR RAP.

THE MATERIAL EXCAVATED FOR THE CONSTRUCTION OF THE HMA SHOULDERS SHALL BE REMOVED FROM THE PROJECT ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. THE REMOVAL OF THE EXCAVATED MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER UNIT FOR EXCAVATING AND GRADING EXISTING SHOULDER.

HMA SHOULDERS SHALL BE OMITTED FROM LOCATIONS WHERE HMA SHOULDERS ALREADY EXIST. HOWEVER, RUMBLE STRIPS SHALL BE CONSTRUCTED AT THESE LOCATIONS.

OMIT RUMBLE STRIPS ON ALL SIDEROADS, PRIVATE AND COMMERCIAL ENTRANCES AT RADIUS RETURNS. OMIT RUMBLE STRIPS AT MAILBOX TURNOUTS 60' BOTH SIDES OF THE MAILBOX OR AS DETERMINED BY THE ENGINEER. RUMBLE STRIPS SHALL NOT BE OMITTED ON FIELD ENTRANCES.

OMIT HOT-MIX ASPHALT SHOULDERS, 8" ON ALL HMA AND PCC SIDEROADS AND ENTRANCES, AND CONCRETE GUTTER LOCATIONS

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 166,057 FEET OF WHITE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

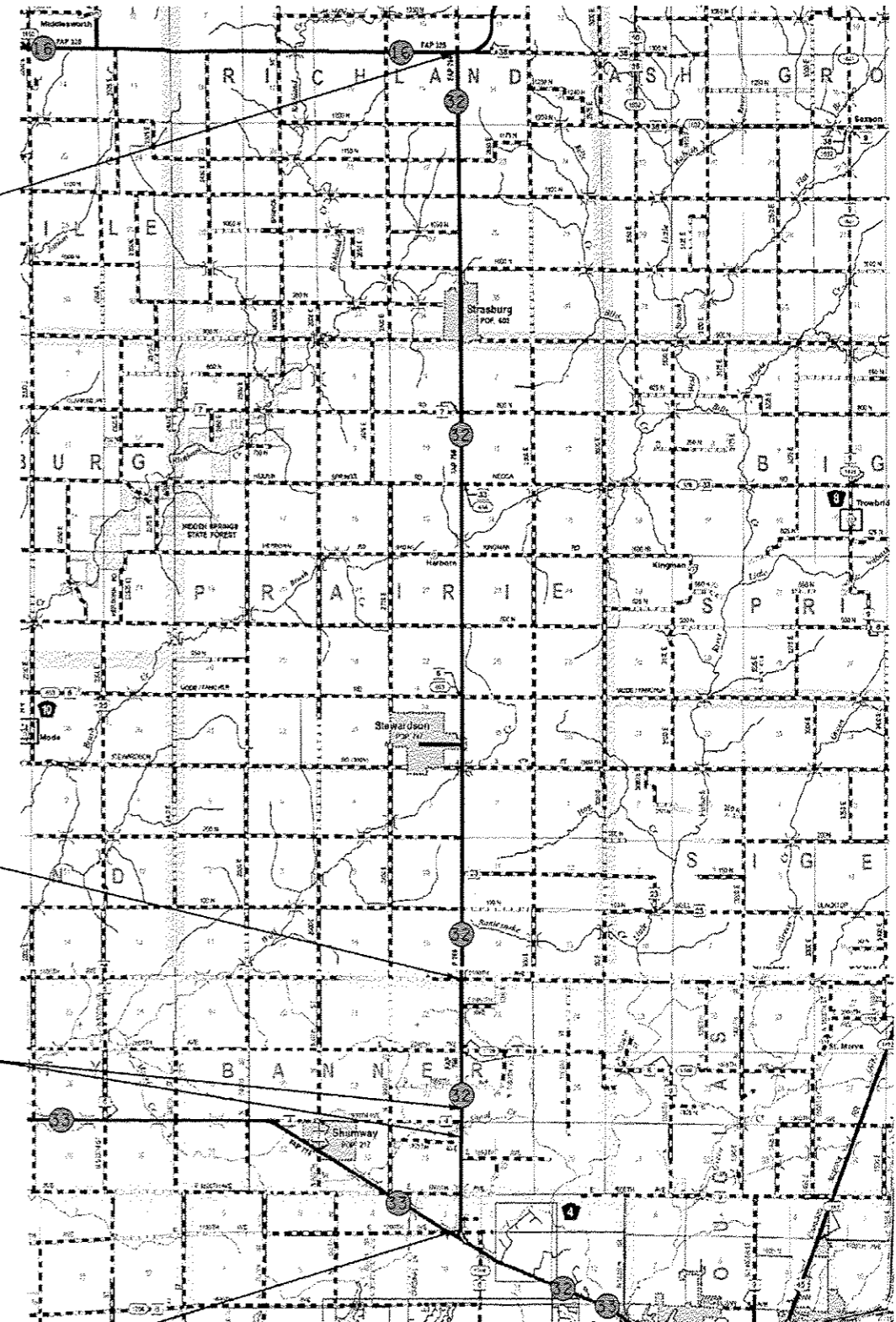
MIXTURE USE:	HMA Shoulders, 8" (Bottom 6" Lift)	MIXTURE USE:	HMA Shoulders, 8" (Top 2" Lift)
APPLICATION:	Hot-Mix Asphalt Shoulders	APPLICATION:	Hot-Mix Asphalt Shoulders
PG GRADE:	PG 64-22	PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ Ndesign = 30	DESIGN AIR VOIDS:	4.0% @ Ndesign = 30
MIXTURE COMPOSITION:	IL-19.0L	MIXTURE COMPOSITION:	IL-9.5L
FRICITION AGGREGATE:	N/A	FRICITION AGGREGATE:	N/A

**PROJECT BEGINS  
STA. 3+19.00**

**SHELBY / EFFINGHAM COUNTY  
LINE STA. 687+15.00**

**OMISSION: STA. 785+28.00  
TO STA. 807+60.00**

**PROJECT ENDS  
STA. 871+19.00**



\* DT HMA SAFETY SHLD 2014-1  
\*\* SHELBY & EFFINGHAM

FILE NAME =	USER NAME = staffennk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, &amp; LOCATION MAP</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
74610-ahk-gamma2dgn	74610-ahk-gamma2dgn	DRAWN -	REVISED -			766	*	**	7	2	
PLOT SCALE = 1/8" = 1' in.		CHECKED -	REVISED -			CONTRACT NO. 74610					
PLOT DATE = 1/28/2014		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

# SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
				0021	
				SHELBY CO.	EFFINGHAM CO.
				90% FED 10% STATE	90% FED 10% STATE
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	1518	1204	314
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	5964	4772	1192
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	50583	40117	10466
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	154584	123879	30705
67100100	MOBILIZATION	L SUM	1	0.8	0.2
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.8	0.2
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	16	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	166057	134197	31860
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14

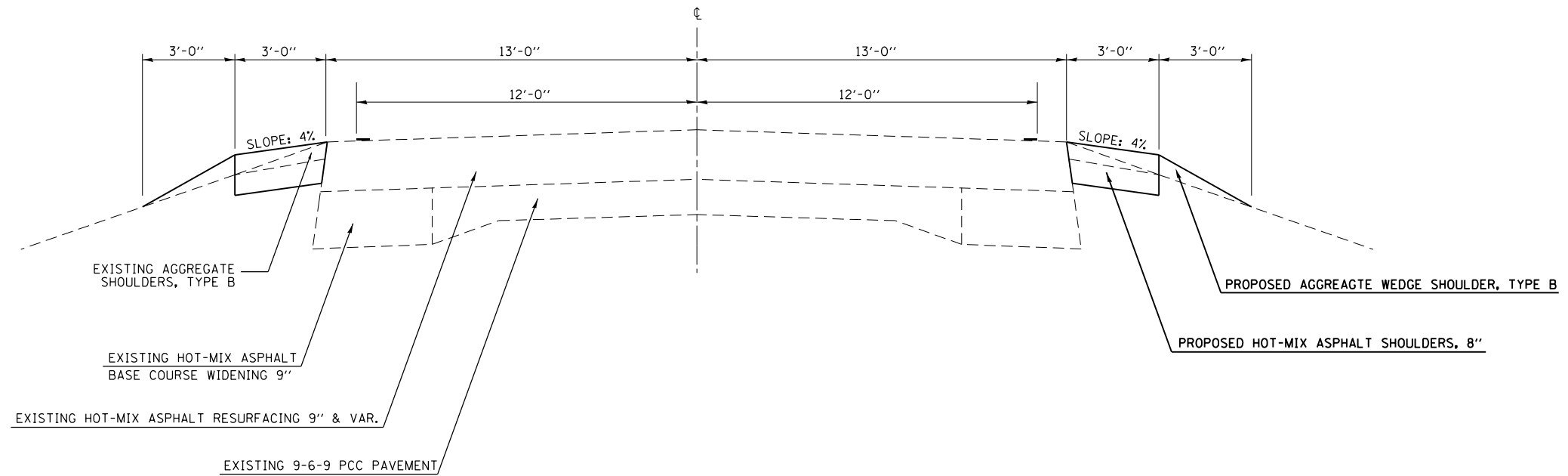
\* - SPECIALTY ITEMS

• DT HMA SAFETY SHLD 2014-1  
 \*\* SHELBY & EFFINGHAM

FILE NAME =	USER NAME = staffanmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/20/2014	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

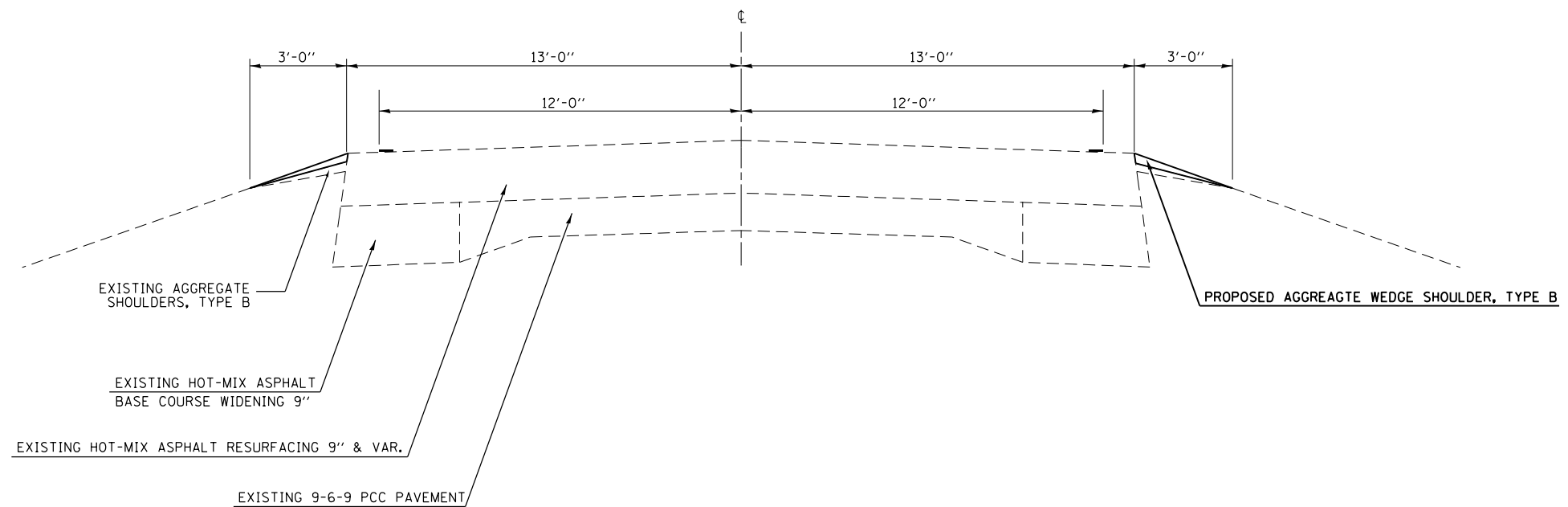
### TYPICAL CROSS SECTION

STATION	TO	STATION
3 + 19.00		181 + 85.00
220 + 00.00		529 + 50.00
532 + 44.00		785 + 28.00
807 + 60.00		871 + 19.00



### TYPICAL CROSS SECTION

STATION	TO	STATION
181 + 85.00		220 + 00.00



• D7 HMA SAFETY SHLD 2014-1  
 •• SHELBY & EFFINGHAM

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	PLOT DATE = 1/28/2014	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

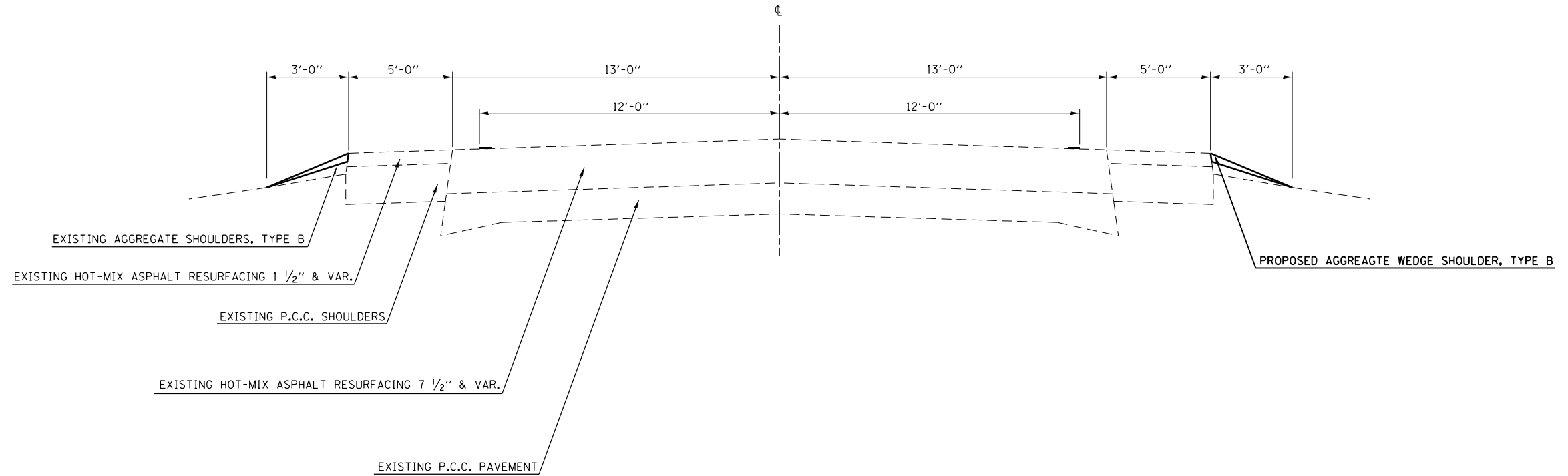
TYPICAL CROSS SECTIONS

SCALE: N/A SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	*	**	7	4
CONTRACT NO. 74610				
ILLINOIS FED. AID PROJECT				

# TYPICAL CROSS SECTION

STATION TO STATION  
529 + 50.00 532 + 44.00



• D7 HMA SAFETY SHLD 2014-1  
•• SHELBY & EFFINGHAM

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	PLOT DATE = 1/28/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE: N/A SHEET OF SHEETS STA. TO STA.

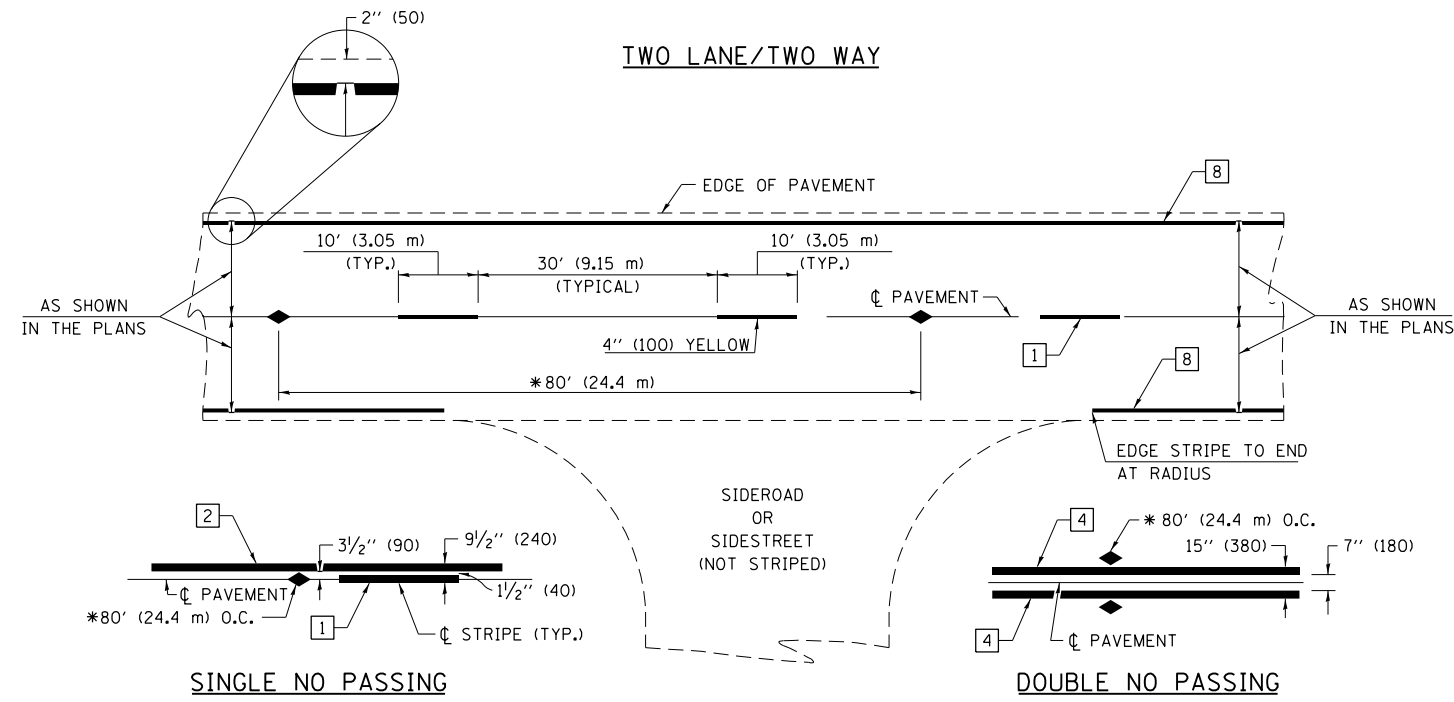
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	*	**	7	5
CONTRACT NO. 74610				
ILLINOIS FED. AID PROJECT				

STATION	TO	STATION	SIDE	LENGTH (FT)	UNIT	TON	SQ YD	FOOT	FOOT
3+19.00		181+85.00	RT/LT	17866.0	339.9	1290.2	11328.7	34682	35239
181+85.00		220+00.00	RT/LT	3815.0	-	183.7	-	-	6953
220+00.00		529+50.00	RT/LT	30950.0	571.5	2169.5	19049	58611	60740
529+50.00		532+44.00	RT/LT	294.0	-	19.6	-	588	588
532+44.00		687+15.00	RT/LT	15471.0	292.2	1109.2	9739.7	29998	30677
SHELBY COUNTY TOTALS =					1204	4772	40117	123879	134197
687+15.00		785+28.00	RT/LT	9813.0	187.6	712.3	6254.3	18185	19169
"SHUMWAY Y" @ CR 4			RT	206.0	2.1	7.8	68.7	206	206
807+60.00		871+19.00	RT/LT	6359.0	124.3	471.8	4143	12314	12485
EFFINGHAM COUNTY TOTALS =					314	1192	10466	30705	31860
PROJECT TOTALS =					1518	5964	50583	154584	166057

20200600 EXCAVATING AND GRADING EXISTING SHOULDER
48102100 AGGREGATE WEDGE SHOULDER, TYPE B
48203029 HOT-MIX ASPHALT SHOULDERS, 8"
64200108 SHOULDER RUMBLE STRIPS, 8 INCH
78001110 PAINT PAVEMENT MARKING - LINE 4"

NOTE: THE EFFINGHAM COUNTY SECTION IS STAMPED IN METRIC STATIONING.  
 STA. 687+15.00 = STA. 5+974.06  
 STA. 785+28.00 = STA. 2+983.21  
 STA. 807+60.00 = STA. 2+302.93  
 STA. 871+19.00 = STA. 0+364.79

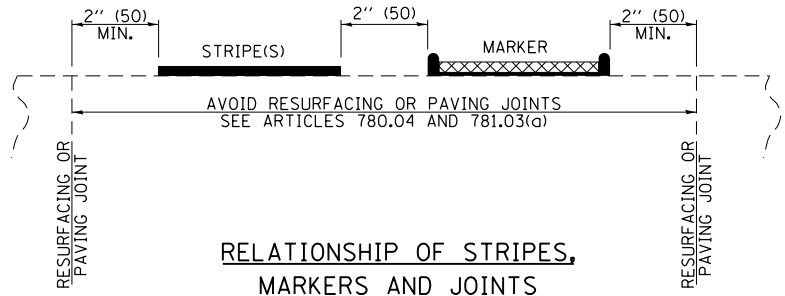
• D7 HMA SAFETY SHLD 2014-1  
 \*\* SHELBY & EFFINGHAM



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

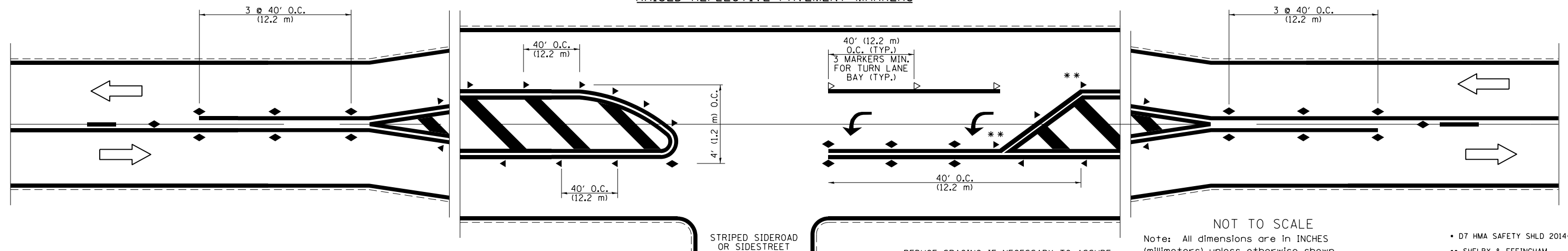
- 1 4" (100) SKIP-DASH (YELLOW)
  - 2 4" (100) SOLID (YELLOW)
  - 3 12" (300) DIAGONAL (YELLOW)
  - 4 4" (100) DOUBLE YELLOW (NARROW)
  - 5 12" (300) SOLID WHITE
  - 6 RESERVED
  - 7 6" (150) SKIP-DASH (WHITE)
  - 8 4" (100) SOLID (WHITE)
  - 9 12" (300) DIAGONAL (WHITE)
  - 10 6" (150) SOLID (WHITE)
  - 11 24" (600) STOP BAR (WHITE)
  - 12 8" (200) SOLID (WHITE)
  - 13 4" (100) PARKING WHITE
- 



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

• D7 HMA SAFETY SHLD 2014-1  
•• SHELBY & EFFINGHAM

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	PLOT DATE = 1/28/2014	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)

SCALE: N/A SHEET NO. OF SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 78000001				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	.	**	7	7
CONTRACT NO. 74610				
ILLINOIS FED. AID PROJECT				